

ANUCHIN, Nikolay Pavlovich, prof.; KRYLOVA, V.I., red.; TRUKHINA, O.N.,
tekhn. red.

[Forest management] Lesoustroistvo. Moskva, Izd-vo sel'skhoz.
lit-ry, zhurnalov i plakatov, 1962. 567 p. (MIRA 15:5)

1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystven-
nykh nauk im. V.I.Lenina (for Anuchin).
(Forest management)

ANUCHIN, Nikolay Pavlovich, prof., doktor sel'khoz. nauk; BRILEVA,
V.F., red.izd-va; SHIBKOVA, R.Ye., tekhn. red.

[Grade tables for pine, spruce, larch, Siberian pine, fir,
birch, aspen, oak, and Carpathian beech] Sortimentnye i tovar-
nye tablitsy dlia sosny, eli, listvennitsy, kedra, pikhty, be-
resy, osiny, duba i buka karpatskogo. Izd.5-e, perer. i dop.
Moskva, Goslesbumizdat, 1963. 468 p. (MIRA 16:7)
(Forests and forestry--Tables and ready reckoners)

ALFEROV, Liberiy Afanas'yevich; ANUCHIN, N.P., nauchn. red.;
SOROKO, Ya.I., red.; RAKITIN, I.T., tekhn. red.

[Life of the forest] Zhizn' lesa. Moskva, Izd-vo "Znanie,"
1963. 30 p. (Novoe v zhizni, nauke, tekhnike. VIII Seriya:
Biologija i meditsina, no.14) (MIRA 16:9)

1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyay-
stvennykh nauk im. V.I.Lenina (for Anuchin).
(Forests and forestry)

ANUCHIN, N.P.

Theory and practice of shelterbelt afforestation. Agrobiologiya
no.4:589-606 Jl-Ag '63. (VIRA 16:9)

1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh
nauk imeni Lenina.
(Windbreaks, shelterbelts, etc.)

ANUCHIN, N.P., prof.

Results of investigating forest shelterbelts. Zemledelie 25
no. 5:27-35 My '63. (MIRA 16:7)

1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh
nauk imeni Lenina.
(Windbreaks, Shelterbelts, etc.)

SVALOV, Nikolay Nikolayovich; ANUCHIN, N.P., red.

[Principles of organizing forest management and exploitation in heavily wooded regions] Osnovy organizatsii lesnogo khoziaistva i lesopol'zovaniia v mnogolesnykh raionakh. Moscow, Goslesbumizdat, 1963. 208 p. (MIRA 17:5)

PERECHIN, Boris Mikhailevich; PERECHIN, Nikolay Petrovich;
ANTCHIK, N.F., red.

[Forest exploitation in the U.S.S.R. (Gut-predst) Leso-
pol'zovanie v SSSR (1947-1962 gg.). Leningrad. Publ. by
Izd-vo "Lesnaya promyshlennost", Leningrad, 1963.]
(RUS)

ANUCHIN, N.I.; VYISKOV, V.S., et al. red.

(Tables for determining standard logging units) Tablitsy dlia opredeleniya raschetnoi longoreki. Moskva,
Vses. nauchno-issled. inst. lesovedstva i mokhunizatsii
lesnogo khoz., 1964. 55 p. (MIR 17:11)

СУЧАКИН, Н.П., проф., отв. ред.; АЛЕКСАНДРОВА, Е.Н., канд.;
ДЕРЯБИН, Д.И., канд. сел'хоз. наук, ред.; ЕЩЕЛЯН,
Г.Ф., канд. сел'хоз. наук, ред.; ИВАНИКОВ, С.Г., канд.
сел'хоз. наук, ред.; ИВАНОВ, Г.Г., ред.; ЛАТУХИН, О.А.,
канд. техн. наук, ред.; ЛОГИЦКИЙ, К.Ю., доктор сел'хоз.
наук, зам. отв. ред.; МИРОНОВ, В.В., канд. сел'хоз. наук,
ред.; РОДИЧЕВ, А.Я., канд. сел'хоз. наук, ред.;
ТРУБНИКОВ, М.М., канд. екон. наук, ред.; ЧИМБИЗЬЕВ, А.А.,
канд. сел'хоз. наук, ред.; ШЕРМАНЬ, В.И., канд. сел'хоз.
наук, ред.; ЧУРГЕСОН, Е.Ю., доктор техн. наук, ред.; ТРОПИН,
Л.В., канд. сел'хоз. наук, ред.

[Studying the performance of new machinery in silvicultural
work; scientific papers] Исследование рабочих процессов
новых машин на лесокультурных работах; научные труды.
Москва, Изд-во "Лесная промышленность", 1964. 111 p.

(S.I.A 17:7)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut
lesovedstva i mekhanizatsii lechnogo khozyaystva.

ANUCHIN, P.I.

Corrosion of stainless steel in monobasic carboxylic acids. Gidroliz.
i lesokhim. prom. 17 no.7:14-15 '64.

1. TSentral'nyy nauchno-issledovatel'skiy lesokhimicheskiy institut.
(MIRA 17:11)

ANUCHIN, P.I.; FIRSOV, A.I.; MIKHALYUK, G.F.

Corrosion resistance of various copper types in acetic acid
solutions. Gidroliz. i lesokhim. 18 no.2:12-14 '65.

1. Tsentral'nyy nauchno-issledovatel'skiy i proyektnyy institut
lesokhimicheskoy promyshlennosti. (MIRA 18:5)

ACC NR:	AP6012088	(A,N)	SOURCE CODE:	UR/0328/65/000/008/0019/0021
AUTHOR:	<u>Anuchin, P. I.</u>			
ORG:	<u>TsNILKhI</u>			
TITLE: The <u>corrosion of stainless steels</u> in the acetic acid industry				
SOURCE: Gidrolyzayna i lesokhimicheskaya promyshlennost', no. 8, 1965, 19-21				
TOPIC TAGS: corrosion inhibitor, corrosion resistant steel, corrosion protection, acetic acid, formic acid, acetate, copper, permanganate, alloy, chromium steel, stainless steel/ Kh15M3 stainless steel, Kh17M3 stainless steel, Kh12M3 stainless steel, 1Kh18N9 stainless steel, OKh17T stainless steel				
ABSTRACT: The effect on stainless steels of the presence (in an aggressive medium) of copper acetate, bichromate, and potassium permanganate is studied. The effect of copper acetate on Kh15M3, Kh17M3, Kh12M3, 1Kh18N9, and OKh17T stainless steels in acetic acid and in a mixture with formic acid is studied. Gravimetric and electrochemical methods are used. A 20% solution of formic acid with an addition of acetic acid (5% of formic) was used. The addition of copper acetate reduces the corrosion of the steels (see Fig. 1). In the presence of as little as 0.1 g/liter copper acetate, the cathode potential is greatly shifted to the positive side (see Fig. 2). Additions of permanganate and bichromate to boiling 80% acetic acid reduces the corrosion of chrome steels as a result of the expansion of the passive region on the				
Card 1/2				
UDC: 620.193:661.731				

L 29526-66

ACC NR: AP6012068

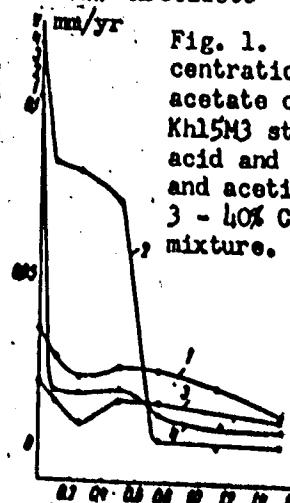


Fig. 1. Effect of concentration of copper acetate on corrosion of Kh15M3 steel in 40% acetic acid and mixture of formic and acetic acids: 1, 3 - 40% CH₃COOH; 2, 4 - mixture.

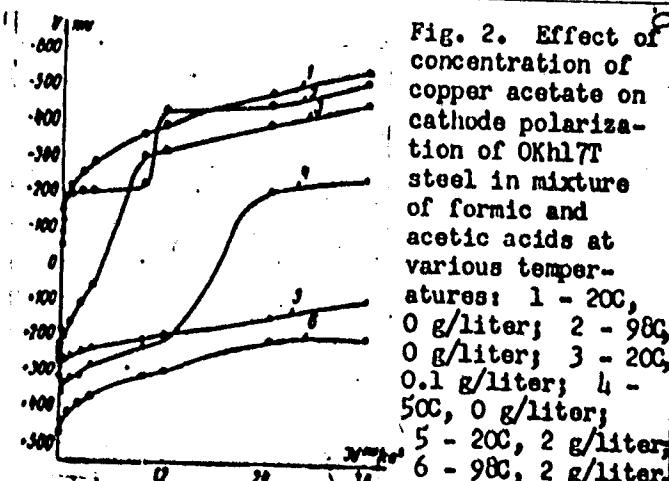


Fig. 2. Effect of concentration of copper acetate on cathode polarization of OKh17T steel in mixture of formic and acetic acids at various temperatures: 1 - 20°C, 0 g/liter; 2 - 98°C, 0 g/liter; 3 - 20°C, 0.1 g/liter; 4 - 50°C, 0 g/liter; 5 - 20°C, 2 g/liter; 6 - 98°C, 2 g/liter.

anode curves and the considerable reduction of the critical current of anode passivation of the alloy. Orig. art. has: 9 graphs.

SUB CODE: 11/

SUB DATE: none/

ORIG REF: 002 / OTH REF: 002

Card 2/2

ANUCHIN, Sergey Andreyevich; BORIK, Aleksandr Galashovich; SHAKHOVA,
Nina Vasil'yevna; KUKIN, G.M., doktor tekhnicheskikh nauk, professor,
retsenzenter; BEKETOVA, Ye.M., redaktor; EL'KINA, Z.M., tekhnicheskiy
redaktor

[Design and servicing of twisting machines used in caprone manufac-
ture] Ustroistvo i obsluzhivanie krutil'nykh mashin kapronovogo
proizvodstva. Moskva, Gos. nauchno-tekhn. izd-vo Ministerstva
promyshlennyykh tovarov shirokogo potrebleniia SSSR, 1954. 99 p.
(Spinning machinery)
(Nylon) (MLRA 7:10)

ANUCHIN
ANUCHIN, V., starshiy leytenant

More about the demountable metal triangle. Voen.-inzh. zhur.
101 no.1:48 Ja '58. (MIRA 11:2)
(Snow removal)

XX-1367, v. A.

RT-1367 Trans-Carpathian District: Scientific-Popular Geographical Description⁷
Abridged from pp. 3-42 of: Zakarpatskaia Oblast' Nauchno-Popul'arnoe Geograficheskoe
Oписание. Moscow, 1947.

ANUCHIN, V.A.

ANUCHIN, V.A. and SPIRIDONOV, A.I. Zakarpatskain Oblast' (nauchno-populiarnoe
geograficheskoe opisanie). Moscow, Geografiz, 1947. 173 p.

"Literatura"; p. 170-174.

DLC: DB346.A65

So: LC, Soviet Geography, Part II, 1951/Unclassified

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000101820007-2

42144 AMUCHIN, V. A. Shanskaya/gvan'skly Koridor. Geogr. ocherk. Voprosy geografii,
sb, 8, 1948, c. 61-76.

SO: Letopis' Zhurnal'nykh Statey, Vol. 47, 1948

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000101820007-2"

1. ANUCHIN V. A.
2. USSR (600)
4. Geology and Geography
7. "Geographical Outlines of "Anchuria," V. A. Anuchin. (Moscow, Geography Press, 1948).
Reviewed by YU. K. Yefremov No 4 1949.
9. ■■■ Report U-3081, 16 Jan. 1953, "Unclassified."

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000101820007-2

ANUCHIN, V. A.

"Socialist Reorganization of the Transcarpathian Province," Neog. v Shkole,
No 2, 1952

MIRA June 1952

APPROVED FOR RELEASE: 06/19/2000

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AZIMOV, V. A.

"Subtropics in Transcarpathia," Vokrug Svetu, No 6, 1952

MIRA Nov 52.

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000101820007-2"

ANUCHIN, V. A.

Interpolodiat. abn.
Vol. 1 No. 1
October 1953
Part 1
Climatology and
Bionomics

110-230

Anuchin, V. A. Geograficheskii atlas Kitaiskoi Natsional'noi Respubliki. [Geographic atlas of Chinese People's Republic.] Izd-vo Akad. Nauk SSSR, 269-72, Sept. 1952. DLC--.)
description of the third edition of the atlas which appeared in 1951. Climatic maps are included. Subject headings: 1. Atlases. 2. China. I.L.D.

SS1.582.3(51)

ANUCHIN, V.A.

Historical introduction to the economic geography of the Chinese People's
Republic. Vop.geog. vol.29:50-72 '52. (MLRA 6:?)
(China--History)

ANUCHIN, V. A. Docent

"The Results of Works in Transcarpathia in Connection with the Introduction
of New Crops," a paper given at the All-University Scientific Conference "Lomonosov
Lectures", Vest. Mosk. Un., No.8, 1953

Translation U-7895, 1 Mar 56

ANUCHIN,V.A., kandidat geograficheskikh nauk (Moscow)

Two books about China ("East China (maritime provinces)" E.M.Murzaev; "Northeast China." Reviewed by V.A.Anuchin) Priroda 44 no.10: 122-124 0'55. (MIRA 8:12)
(China--Description and travel) (Murzaev,E.M.)

ANUCHIN, Vasovod Aleksandrovich; MARGOLIN, Ya.A., redaktor; KOSHNEVA, S.M.
tekhnicheskiy redaktor

[Geography of Soviet Transcarpathia] Geografiia Sovetskogo Zakarpat'ia.
Moskva, Gos. izd-vo geogr. lit-ry, 1956. 294 p. (MLRA 9:10)
(Transcarpathia--Geography)

Anuchin, V.A.

ANUCHIN, V.A.

The essence of geographical environment and the manifestation of
indeterminism in Soviet geography. Vop. geog. no.41:47-64 '57.
(Geography) (MIRA 10:12)

ANUCHIM, V.A., red.; BUGAYENKO, P.I., red.; YFROKHIMA, R.A., red.;
KHAKIMOV, V.Z., red.; GEORGIEVA, G.I., tekhn.red.

[Natural zones and agricultural geography of Soviet Transcarpathia; collection of articles] Prirodnaia sreda i gno-grafii sel'skogo khoziaistva Sovetskogo Zakarpat'ia;
sbornik statei. Moscow, 1959. 193 p. (MIREA 12:10)
(Transcarpathia--Physical geography)
(Transcarpathia--Agriculture)

ANUCHIN, V.A.

Theoretical problems in geography. Nauch.dokl.vys.shkoly; geol.-
geog.nauki no.1:7-14 '59. (MIRA 12:6)

1. Moskovskiy universitet, geograficheskiy fakul'tet, kafedra
ekonomicheskoy geografii zarubezhnykh stran.
(Geography)

ANUCHIN, Vsevolod Aleksandrovich; SOKOLOV, V.V., kand.filosof.nauk,
spets.rod.; YANIKOV, G.V., red.; BELICHENKO, R.K., mladshiy red.;
OLEYKH, D.A., tekhn.red.

[Theoretical problems in geography] Teoreticheskie problemy
geografii. Moskva, Gos.izd-vo geogr.lit-ry, 1960. 264 p.
(MIRA 13:12)

(Geography)

ANUCHIN, V.A.; YUDKEVICH, O.Yu., red.

[Criticism on the comprehensiveness of geography] O kritike
edinstva geografii. Predisl. N.N. Baranskogo. Moskva, Mosk.
gos. univ. im. M.V. Lomonosova, 1961. 32 p. (MIRA 15:2)
(Geography--Study and teaching)

ANUCHIN, V.A.

January plenum of the Central Committee of the CPSU on geography.
Geog. i khoz. no.9:3-4 '61. (MIRA 14:11)
(Communist Party of the Soviet Union)
(Geography, Economic)

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000101820007-2

ANUCHIN, V.A.

New book with old ideas. Geog. i khoz. no.12:93 '63.
(MIRA 16:12)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000101820007-2"

ANUCHIN, V.I.

Principles of Soviet regional geography. Vest. Mosk. un. Ser. 5: Geog.
19 no. 5:14-20 S-0 '64. (MIRA 18:1)

1. Kafedra stran narodov demokratii Moskovskogo universiteta.

RYABCHIKOV, A.M., prof.; SHCHUKIN, I.S.; SAUSHKIN, Yu.G., prof.;
GVOZDETSKIY, N.A.; MARKOV, K.K.; ANUCHIN, V.A.; SOLNTSEV,
.A., doktor geogr. nauk

Senior Soviet Geographer; 1875- ; 90th birthday of Aleksandr
Nikolaevich Dzhavakhishvili. Vest. Mosk. un. Ser. 5: Geog.
20 no. 5:82 S-O '65. (MIRA 18:12)

AFANAS'YEV, A.P.; ANUCHIN, V.G.; VINOGRADOV, K.V.; GARANINA, M.N.;
GILEROVICH, M.M.; DUBROVSKIY, Ye.P.; YEVSTIGNEYEV, A.A.; IOKHVIN,
M.R.; KALMYKOV, P.M.; KRENGEL', I.TS.; LOSEV, I.G.; MAYEVSKIY,
F.M.; MAZEL', S.I.; MIZHERITSKIY, G.S.; NOVIKOV, M.I.; NAZAR'YEV,
O.V.; PCHELKINA, I.A.; RAZUMOV, V.S.; ROZENBLIUM, I.M.; SEROV, B.P.;
SKRYPNIK, T.I.; SAL'VIN, Ye.S.; SMOTRINA, V.F.; TELEPNEVA, N.S.;
FIL'CHAKOV, N.I.; KHRAPUNOVA, Ye.L.; UNDREVICH, G.S.; UR'T'YEV, P.P.;
SHILOV, A.A.; SHLYKOV, A.P.; KIRILLOV, L.M., red.; MARKOCH, M.G.,
tekhn.red.

[Regulations on the construction of municipal telephone network lines]
Pravila po stroitel'stvu lineinykh sooruzhenii gorodskikh telefonnykh
setei. 2 изд. Москва, Sviaz'izdat, 1962. 511 p. (MIRA 15:5)

1. Russia (1923- U.S.S.R.) Ministerstvo svyazi. Glavnaya upravleniya
kapital'nogo stroitel'stva.
(Telephone lines)

ANUCHIN, V.Y.

Diagnostic difficulties in the expertise on alcoholic paranoid.
Prak.sudebnopisikh.ekspert. no.7:42-49 '62. (MIRA 16:2)
(PARANOIA) (ALCOHOLISM)

ANUCHIN, V.V.

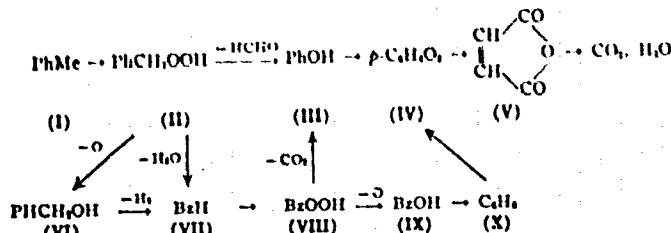
Clinical aspects and forensic psychiatric evaluation of
protracted alcoholic paranoia. Probl.sud.psikh. no.12:59-71
'62. (MIRA 16:4)

(FORENSIC PSYCHIATRY) (PARANOIA) (ALCOHOLISM)

H. MICHINAI, I-

Mechanism of the vapor-phase oxidation of benzene, α -methyl alcohol, and benzaldehyde, in the presence of chromium oxides. B. V. Savrov, S. R. Rafikov, and I. G. Anuchina (Inst. Chem. Sci. Acad. Sci. Kazak. S.S.R.). *Dokl. Akad. Nauk S.S.R.* 95: 70-72 (1953).—Oxidation of PhMe in the temp. range 300–75° yields mainly CO₂, H₂O, BaII, Ba³⁺H, quinone, maleic anhydride, and anthraquinone, and small amts. of PhOH and HCHO. The process can be represented by the scheme of these products, only VI was

Chemical Abst.
Vol. 48 No. 4
Feb. 25, 1954
Organic Chemistry



not detected. The scheme involves 2 intermediate peroxides, II and VIII. Anthraquinone (XI) was detected in the oxidation of I, but not in the oxidation of either VI or VII. The formation of XI evidently proceeds by way of I + O₂ + I $\xrightarrow{-H_2O}$ C₁₄H₁₀ $\xrightarrow{O_2}$ XI. In the oxidation of I, the total amt. of VII + IX does not exceed 4%; that this is due to further reactions of VII and IX follows from the observation with a contact time shortened by a factor of 4, the yield of

VII is as high as 25% of the original I. In the oxidation of form VII in the same temp. range, the main products are IX, IV, and V; as a function of the temp., their amts. pass, successively, through max. Advance addn. of H₂O increases the total yields markedly, but without altering the consecutiveness of the max. Oxidation of VI also yields, in the main, the products of incomplete oxidation, but in somewhat smaller amts. than VII. Production of VII and of IX proceeds simultaneously; this is taken as evidence that IX is formed not only from VII, but also directly from VI, over the corresponding hydroperoxide, VI + O₂ → PhCH(OH)OOH → H₂O IX. Addn. of H₂O vapor again increases the yields of the intermediate products, without altering the disposition of the max.

N. Thon

MF
1-10-51

ROZIEKOV, A.M.; RAFIKOV, S.R.; ANUCHINA, I.G.

Copolymerization of dipentene and acrylonitrile. Izv.Sib.otd.
AN SSSR no.5:48-54 '59. (MIRA 12:10)

1. Khimiko-metallurgicheskiy institut Sibirskego otdeleniya
Akademii nauk SSSR.
(Acrylonitrile) (Dipentene)

ANUCHINA, I.G.

Chemical composition of Siberian larch wood. Trudy Khim.-met.
Inst. Sib. otd. AN SSSR no. 13:37-40 '59. (MIRA 14:1)
(Larch) (Wood--Chemistry)

16(1) 16.3500

66397

1

AUTHORS: Anuchina, N.N., and Yanenko, N.N.

SOV/20-128-6-1/63

TITLE: Implicit Splitting Schemes for Hyperbolic Equations and
Hyperbolic Systems

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 128, Nr 6, pp 1103-1105 (USSR)

ABSTRACT: K.A.Bagranovskiy and S.K.Godunov [Ref 1] approximated a system
of partial differential equations of hyperbolic type by a one-
dimensional explicit difference scheme which was stable under
certain assumptions on the step. The authors use an analogous
method which is denoted as a splitting method, in order to
approximate equations of hyperbolic type for an arbitrary step
by one-dimensional implicit difference schemes. E.g. to the
equation

$$(18) \quad \frac{\partial^2 p}{\partial t^2} - \sum_{i=1}^n \frac{\partial^2 p}{\partial x_i^2} = 0$$

there corresponds the splitting scheme

X

Card 1/2

Implicit Splitting Schemes for Hyperbolic Equations
and Hyperbolic Systems 66397
SOV/20-120-6-1/63

$$(19) \quad p \frac{n+1+\frac{s}{m}}{-p} \frac{n+1+\frac{s-1}{m}}{-p} \frac{n+\frac{s}{m}}{+p} \frac{n+\frac{s-1}{m}}{+p}$$

$$= \frac{\Delta_s \Delta_{-s}}{h_s^2} p \frac{n+1+\frac{s}{m}}{+p} \frac{n+1+(\frac{s-1}{m})}{+p} \frac{n+\frac{s}{m}}{+p} \frac{n+\frac{s-1}{m}}{+p} .$$

The scheme (19) approximates (18), is spectrally stable and consequently convergent. Linearized equations of the gas dynamics are considered in detail.
There is 1 Soviet reference.

PRESENTED: June 6, 1959, by N.N.Bogolyubov, Academician.
SUBMITTED: March 7, 1959

Card 2/2

ANUCHINA, N.N.

Difference schemes for solving the Cauchy problem for
hyperbolic symmetric systems. Dokl. AN SSSR 154 no.2:
247-250 Ja'64. (MIRA 17:2)

1. Predstavлено академиком I.N. Vekun.

S/137/62/000/004/026/201
A006/A101

AUTHORS: Sobinyakova, N. M., Ivantsova, G. A., Anuchina, T. M.

TITLE: New studies in the field of hydrometallurgy of molybdenum ores

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 4, 1962, 21, abstract 40128
(V sb. "Mineral'n. syr'ye", no. 2, Moscow, 1961, 206-225)

TEXT: The authors studied the possibility of side-extracting Mo sulfide from complex sulfide ore by sulfuric-acid lixiviation with the use of oxidizers. It was found that for complex ores with low sulfide content the extraction of Mo sulfide as a result of its oxidation by the addition of oxidizers was practically expedient. The effectiveness of the following oxidizers acting upon MoS_2 , was investigated: chlorate, bichromate and KMnO_4 bleaching powder, pyrolusite and HNO_3 . For practical use in acid media K-chlorate and HNO_3 are recommended as oxidizers. In acid leaching-out of ores under optimum conditions for both oxidizers Mo extraction is 83 - 85% of the total Mo amount contained in the ore. The consumption of the mixture (75% H_2SO_4 and 25% HNO_3) is 7.5% of the ore weight; the consumption of KI chlorate or HNO_3 is 1.2% or 1.87% respectively of the ore weight. Conditions were worked out for Mo separation ✓

Card 1/2

New studies in the field ...

S/137/62/000/004/026/201
A006/A101

out of the solution with the use of new industrial anionite grades [ЭДЭ -10П (EDE-10P), АВ -16 (AV-16), АИ -1 (AN-1) and НО (NO)]. It was established that it was expedient to eluate Mo by ammonia solutions with NH₃ concentration of >50 g/l. There are 30 references.

O. Svodtseva

[Abstracter's note: Complete translation]

Card 2/2

~~SECRET SOURCE BY STAFF~~

Life on a Dnieper Valley kolkhoz. Moscow, Sov. izd-vo selkhoz lit-ry, 1954.
63 p.

1. Agriculture, Cooperative - Russia - Dnieper Valley

ANUCHKIN, G.P.

Investigating the dynamics of automatic control of a turboprop
engine having a limiter of the negative thrust. Avtom. reg.
aviadvig. no.4:95-102 '62. (MIRA 15:11)
(Airplanes--Turbojet engines)

ANUCHKIN, M.P.

CAND TECH SCI

Dissertation: "Investigation of Optimum Shapes for Beams and Columns made of Thin-walled Stamped Sections."
6 December 49
Central Sci Res Inst of Industrial Structures.

SO Vecheryaya Moskva
Sum 71

183T52

ANUCHKIN, M. P.

USSR/Engineering - Welding, Testing

Jan 51

"Internal Stresses in Welded Joints of Pipe Lines,"
M. P. Anuchkin, Cand Tech Sci, NIIStroyneft'

"Avtogen Delo" No 1, pp 11-14

Used pipes of 325-mm diam, 10-mm wall to study
transverse contraction of pipe joints and dis-
tribution and magnitude of int stresses in welded
joint. Also subjected joints of pipes 125 mm in
diam to tension tests, showing single test is in-
sufficient to det actual static strength of welded
joints. Double or triple tests required with load
carried above yield point each time.

183T52

ANUCHKIN, N. F.

PA 233T48

USSR/Metallurgy - Welding, Pipes Aug 52

"Strength of the Welded Joints of Pipelines,"
M.P. Anuchkin, Cand Tech Sci, NIISstroyneft' Res Inst for Construction of Enterprises of the
Gas and Petroleum Ind?

"Avtogen Delo" No 8, pp 13-16

Analyzes results of exptl investigations on following subjects: (a) studying behavior of welded joints under tension, (b) detg mech characteristics of welded joint and base metal of whole pipes; (c) investigating conditions for failure of welded joints and effect of aging and plastic deformations of weld metal on plastic properties of joint.

233T48

AKIN, M.Y.
KISLYUK, F.I., doktor tekhnicheskikh nauk; MAXEL', A.T., kandidat
tekhnicheskikh nauk; YAL'KEVICH, A.S., inzhener; ANUCHKIN, M.S., kandidat
tekhnicheskikh nauk; LIVSHITS, L.S., kandidat tekhnicheskikh nauk; NEYVEL'D,
I.Ye., inzhener; BAKHRAKH, I.P., inzhener; POLYAKOVA, P.B., inzhener.

Welding with electrode cluster. Section of the All-Union Scientific En-
gineering Technological Cluster. Research Institute for Petroleum Industry Construction. no. 6-10 Je '53.

(Electric welding)

ANUCHKIN, M. P.

AID P - 210

Subject : USSR/Engineering
Card : 1/1
Author : Anuchkin, M. P.
Title : Causes of Failure of Welded Seams and Conditions
for Welded Pipe Lines of Uniform Strength
Periodical : Neft. khoz., v. 32, #3, 42-49, Mr 1954
Abstract : The study of various methods of electric welding
of pipes is presented. The strength of the pipe
joint is analysed in respect to the material of
the pipe and welding method. The results of com-
parative tests are presented in 3 tables and 3 charts.
Institution : None
Submitted : No date

ANUCHKIN, M.P.

AID P - 552

Subject : USSR/Engineering

Card 1/1 Pub. 78 - 18/29

Author : Anuchkin, M. P.

Title : Rational method of reinforcing of the welded junction
of the pipe lines

Periodical : Neft. Khoz., v. 32, #7, 70-74, J1 1954

Abstract : General description of welded pipe line reinforcements of
various types (sleeves, leaves, angles, etc.) is given.
The author also presents the physical characteristics and
dimensions of weld-reinforcing materials and the stresses
developed in the junctions. 2 drawings, 4 charts, 2 tables,
and 2 Russian references (1951, 1952).

Institution : None

Submitted : No date

U.S.S.R.

162
VIRAS. DEFECTS OF TIGHTNESS AND STABILITY OF LONGITUDINAL
JOINTS OF GAS PIPE LINES. *Pravda*, No. 101 (Int. Ed.), Nov. 1,
1956, p. 6. A gas pipeline of the city steel plant in 1952-1953
had failures in longitudinal joints one year after laying. In its one
given of scale or pieces cut from the pipe, 80% of the defects were bad
welds and 20% were due to the violent heating at the edge of the joint of
the weld. It is recommended that a joint in large high-pressure pipes
should be welded in both sides and that a special welding technique
should be used. (4)

ANENKOV, N.I.; ANUCHAIN, R.I.

Pipes for gas pipelines in the Far North. Stroi. truboprov. no.9:
3-6 S '64. (MIRA 17 '10)

1. Vsesoyuzny nauchno-issledovatel'skiy institut po stroitel'stvu
magistral'nykh truboprovodov.

ANUCHKIN, M.P., kandidat tekhnicheskikh nauk; LIVSHITS, L.S., kandidat
tekhnicheskikh nauk.

Causes for the cracking of welded joints in pipelines. Trudy VII
Stroinefti no.4:5-25 '56. (MLRA 10:1)
(Petroleum--Pipelines) (Pipelines--Welding)

ANUCHKIN, M.P., kandidat tekhnicheskikh nauk.

New brands of steel for the manufacture of large-diameter petroleum
gas pipes with a longitudinal electrically welded seam. Trudy
VNIISTROIMENT' no.7:53-64 '56.
(MLRA 9:11)
(Petroleum--Pipelines)
(Pipe, Steel--Welding)

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000101820007-2

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000101820007-2"

AUTHOR: None Given 125-58-6-13/14

TITLE: The All-Union Scientific-Technical Conference on the Production of Welded Pipes and the Assembly Welding of Main Ducts (Vsesoyuznoye nauchno-tehnicheskoye soveshchaniye po proizvodstvu svarnykh trub i montazhnoy svarke magistral'nykh truboprovodov)

PERIODICAL: Avtomaticheskaya Svarka, 1958, Nr 6, pp 94 - 99 (USSR)

ABSTRACT: An All-Union scientific-technical conference on pipe-welding took place in February 1958 at the Institut elektrosavarki imeni Ye.O. Patona (Institute of Electrowelding imeni Ye.O. Faton). It was convened by the Tsentral'noye pravleniye NTO neftyanoy promyshlennosti (NTO Central Administration of the Oil Industry), the Glavgaz attached to the USSR Council of Ministers, and the Institute of Electrowelding imeni Ye.O. Paton. The conference was opened by M.V. Sidorenko, President of the NTO Central Administration of the Oil Industry and Deputy Director of the USSR Glavgaz, who delivered an introductory report on the development of the gas industry and on pipe production requirements. The conference then heard the following reports: B. Ye. Paton, Director of the Institute of Electrowelding, Member-Correspondent of the AS UkrSSR, on the production of welded

Card 1/5

The All-Union Scientific-Technical Conference on the Production of Welded Pipes and the Assembly Welding of Main Ducts

pipes and mechanization of welding in pipe-line construction; S.I. Borisov, Doctor of Technical Sciences, Deputy-director of VNIITI, on scientific research in the production of thin-walled pipes of large diameters; V.I. Gorodetskiy, Chief Engineer of Ukrugiprogaz, on the calculation of main ducts; A.P. Anuchkin, Candidate of Technical Sciences from VNIISET, on the technical requirements of high-pressure pipes; R.I. Lashkevich, Candidate of Technical Sciences from the Institute of Electrowelding imeni Ye.O. Iatton, on modern technological systems and equipment for the production of large-diameter pipes; S.L. Mandel'berg (Institute of Electrowelding imeni Ye.O. Faton), Candidate of Technical Sciences, on the production technology and properties of straight-seam welded, large-diameter gas-pipes; G.L. Livshits (TsNIIChM), Candidate of Technical Sciences, on steels for high-pressure oil-pipes; I.A. Mal'kov, Engineer from USSR Glavgaz, on technical conditions for oil-gas pipes abroad and particularly in the US; A.M. Garegul', Engineer, Chief of the Pipe-welding Workshop at the Chelyabinsk Plant, on experiences in the production of welded large-diameter tubes; G.V. Rayevskiy, Candidate of Technical Sciences (Institute

Card 2/5

ANUCHKIN, M.P., kand. tekhn. nauk; ANENKOV, N.I., inzh.; SHAKHOVSKAYA, G.V.,
inzh.

Welded pipe strength in main trunk gas lines Svar. proizv. no.2:
21-22 F '59.
(MIRA 12:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut tverdykh splavov.
(Pipe, Steel--Welding) (Welding--Testing)
(Gas, Natural--Pipelines)

ANUCHKIN, M.P., kand.tekhn.nauk

Welded gas and petroleum pipelines in foreign countries. Stroi,
truboprov. 4 no.12:27-29 D '59. (MIRA 13:5)
(United States--Pipe--Steel)

NIKOLAYEV, S.I., red.; SALUKVADZE, V.S., red.; ANDRIANOV, K.I., red.; VASIL'YEV, A.Ye., red.; ZHIKHAREVA, G.P., red.; KRYLOV, P.I., red.; KSHONDZER, O.L., red.; KHORAMIKHIN, F.O., red. [deceased]; CHEREMISINOV, M.M., red. Prinimali uchastiye: ANUCHKIN, M.P., red.; GRIGOR'YEVA, M.B., red.; ZHUKOV, V.I., red.; KALYUZHNYY, N.G., red.; KAMERSHTEYN, A.G., red.; KOZLOVSKAYA, A.A., red.; LAVROVA, N.P., red.; NUSOV, G.I., red.; FAL'KEVICH, A.S., red.; YERSHOV, P.R., vodushchiy red.; MEDOTOVA, I.G., tekhn.red.

[Safety regulations for constructing steel pipelines] Pravila tekhniki bezopasnosti pri stroitel'stve magistral'nykh stal'nykh truboprovodov. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1960. (MIRA 13:9) 235 p.

1. Russie (1923- U.S.S.R.) Olavnnoye upravleniye gazovoy promyshlennosti.
2. Vsesoyuznyy nauchno-issledovatel'skiy institut tverdykh splavov (for Anuchkin, Grigor'yeva, Zhukov, Kalyushnyy, Kamershteyn, Koslovskaya, Lavrova, Nusov, Fal'kevich),
(Pipelines) (Industrial safety)

3/035-6/000/010/002/006
AO₁₃/AO₂₀

AUTHOR: Anuchkin, M.P. Candidate of Technical Sciences

TITLE: New Technical Requirements for the Supply of Electric-Welded Pipes

PERIODICAL: Stroitel'stvo truboprovodov, 1960, No. 10, p. 28

TEXT: New Technical Requirements YM^{Ty} No 203-60(ChMIU No. 203-60) for the supply of 720 and 820 mm pipes on the Chelyabinskii trubnyy zavod (Chelyabinsk Pipe Plant) have been issued. These introduce in general higher claims in regard to the plasticity and toughness of the metal, as well as to the accuracy of dimensions. The new Technical Requirements are considered temporary due to pending improvements in the quality of the metal. The tensile strength of 48 kg/mm² has remained the same, while the yield point must not be lower than 34 kg/mm² instead of formerly 38 kg/mm². This enables manufacturers to raise the plastic property and the toughness of the steel. The lowering of the yield point permits to decrease the carbon content in steel, which brings down the percentage of metal deformation in tube expanding. In accordance with statistical data the relative elongation of sheet steel 19 Г (190) has increased on an average of 2-3 % in 1960 as compared with 1959. To guarantee plasticity and toughness of the metal in finished pipes, the Technical Conditions raise the re-

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Card 1/2

3/035/60/000/010/002/006
A053/A029

New Technical Requirements for the Supply of Electric-Welded Pipes

uirements for the value of relative elongation and the value of the ratio between yield point and tensile strength. In this connection 18 % for the former and 0.82 % for the latter involve rejection of products. Due to the fact that plants still lack experience in producing pipes, a certain allowance is granted until January 1961. Technical Conditions provide also for certain restrictions on excessive expansion of metal, as a result of pipes being expanded: for 720 mm pipes expansion should not exceed 1.2 %, and for 820 mm pipes 2.2 %. Deformation of pipes will be limited in 1961 to 1.2 % for both 820 and 720 mm pipes. The Technical Conditions ChMTU No. 203-60 also raise the accuracy norms for pipes: the tolerance for the outside diameter of 720 mm is ± 4 mm (instead of ± 6.5 mm) and the outer diameter of 820 mm ± 5 mm; for pipe ends the tolerances are ± 2 mm and ± 3 mm, respectively. The new method of determining the tolerance of diameter is done by taking the tape measurement of the perimeter of the pipe and divide it by 3.14. The ellipse (difference between minimum and maximum diameters) should not exceed 6 mm for 720 mm pipes, and 8 mm for 820 mm pipes. ChMTU No. 203-60 provides for a greater variety of steel to be used, adding the two new grades 14 ГН (14ГН) and 15 ГН (15ГН) of natural alloy steel of the Orsk-Khalilovo Plant containing 0.4 - 0.8 % nickel.

Card 2/2

TURKIN, V.S.; ANUCHKIN, M.P., kand.tekhn.nauk

Thirteenth Congress of the International Institute of Welding.
Stroi.truboprov. 5 no.11:30-32 N '60. (MIRA 13:11)

1. Chlen-korrespondent Akademii stroitel'stva i arkhitektury
SSSR (for Turkin).
(Pipelines--Welding)

ANUCHKIN, M.P., kand.tekhn.nauk; ANENKOV, N.I., inzh.

Effect of cuts and hollows on the bearing capacity of pipe.
Stroi.truboprov. 6 no.11:6-9 N '61. (MIRA 15:4)
(Pipelines—Testing)

TURKIN, V. S.; ANUCHIN, M. P.

"Strength of Pipes and Design of High Pressure Pipelines."
Report to be submitted at the 15th Annual Assembly of the International
Institute of Welding in Oslo, 25-30 June 1962.

CHEKANOV, A.A., kand. tekhn.nauk; ANUCHKIN, M.P., kand. tekhn.
nauk, retsenzent; CHERNYAK, V.S., inzh., red.; RAGAZINA,
M.F., red.ind-va; DEMKINA, N.F., tekhn. red.

[Low-temperature welding]Svarka pri nizkikh temperaturakh.
Izd.2. perer. Moskva, Mashgiz, 1962. 191 p. (MIRA 16:4)
(Electric welding)

18.8200

39526

S/095/62/000/004/001/001

I031/I231

AUTHOR: Anuchkin, M. P., Candidate of Technical Sciences, and Makarova, Z. G., Engineer
(VNIIT, Moscow)

TITLE: Effect of plastic deformation occurring during the manufacturing processes of pipes on
the physical properties of their base metal

PERIODICAL: Stroitel'stvo truboprovodov, no. 4, 1962, 13-15

TEXT: Systematic failures are known to occur in the base metal of cold-expanded pipes in Soviet and foreign pipelines. The cold forming of pipe blanks made by die-pressing induces compressive prestraining of the order of 0.7% approx. and tensile strains averaging 1.2-2.2% are created while cold-expanding the pipes. The induced stresses, although of different type and sign, accumulate and considerable cold-work strengthening of the metal takes place. American investigators have shown that precompression is followed by loss of ductility and that the fractures of restrained specimens have a brittle appearance.

The authors studied the behavior of 14ГН (14GN) and 19Г (19G) steels used as piping material at the Chel'yabinsk Pipe Plant and concluded that compressive straining has a detrimental effect on the tensile properties of gas pipes.

Card 1/2

Effect of plastic...

S/059/62/000/004/001/001
1031/1231

As to the influence of tensile deformation produced by cold expansion on the brittle behavior of investigated steels, it was found that the yield-tensile strength ratio increases with increase of the preliminary plastic deformation induced into the pipe. Comprehensive bursting tests have demonstrated that non-expanded pipes have a higher bursting pressure than cold-expanded pipes made from the same material. The Gosstroy SSSR adopted the following formula for internal pressure which makes it possible to avoid plastic deformation while pressure testing the pipes: $0.8\sigma \geq \rho D/2\delta$, in which σ = yield point; ρ = internal pressure; D = external diameter; δ = wall thickness. Between the years 1958 and 1960, fifty failures in the base metal of cold-expanded pipes were recorded in 5,500 km of pipes laid by Glavgas SSSR, while no failure occurred in 5,200 km of non-expanded pipes. There are 6 figures and 2 tables.

Card 2/2

10.7600

2708

43274
S/842/62/000/000/003/006
E191/E435

AUTHOR: Anuchkin, M.P., Candidate of Technical Sciences
TITLE: Brittle failures of welded tubes in major gas pipelines
SOURCE: Primeneniye svarki v stroitel'nykh konstruktsiyakh,
Vses. konfer. po prim. svarki v stroi. konstr., 1961.
Moscow, Gosstroyizdat, 1962. 334-344

TEXT: Some facts about failures in Russian high pressure gas pipelines made of medium tensile carbon steel 19Г (19G) of the ChTPZ are recited. Many failures have occurred in 5460 km total length of pipeline laid in 1958-60, whereas in a similar total length of pipeline made of low tensile steel tubes no failures have occurred. A thorough investigation of failed tubes of Soviet 19G, 14ГН (14GN), 15ХГН (15KhGN) and West German (firm "Mannesman") steels has shown that they had an elongation of about 15% and impact values at +20°C of 3 to 5 kg/cm² and at -40°C of 1 to 2.5 kg/cm². In notched specimens, the reduction of areas was found to drop down to 4 to 12% compared with 40 to 50% in smooth specimens. Thus, the failures were identified as brittle failures owing to inadequate ductility and excessive notch

X

Card 1/2

ANUCHKIN, Mikhail Pavlovich; SVYATITSKAYA, K.P., ved. red.;
VORONOVA, V.V., tekhn. red.

[Stability of welded pipelines] Prochnost' svarnykh ma-
gistral'nykh truboprovodov. Moskva, Gostoptekhizdat, 1963.
195 p.

(MIRA 16:11)

(Gas, Natural—Pipelines)
(Corrosion and anticorrosives)

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000101820007-2

TOPIC PAGE: pipeline, steel pipeline, lev * amherst re metal * topic int. area

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CIA-RDP86-00513R000101820007-2"

L 17449-66 EWT(m)/EWT(w)/T/EWP(t)/ETI/EWP(k) IJP(c) JD/HW
 ACC NR: AP601.606 (N)

SOURCE CODE: UR/0133/66/000/005/0461/0464

AUTHORS: Gulyayev, A. P.; Anuchkin, M. P.; Georgiyev, M. N.; Dogadayeva, V. A.

ORG: All-Union Scientific Research Institute for the Production of Pipe Mains
 (Vsesoyuznyy n.-i. institut po stroitel'stvu magistral'nykh truboprovodov); TsNIIChM

TITLE: A study of the cold shortness of heat-treated steels for pipe manufacture

SOURCE: Stal', no. 5, 1966, 461-464

TOPIC TAGS: steel pipe, steel property, steel temporing, steel testing / 17GS steel, 14GN steel

ABSTRACT: The effectiveness of heat treating steels 17GS and 14GN to increase their resistance to cold shortness was tested. Steel 17GS was produced in the Cherepovets Metallurgical Plant (Cherepovetskiy metallurgicheskiy zavod); steel 14GN was produced in the Orsk-Khalilovskiy Metallurgical Combine (Orsko-Khalilovskiy metallurgicheskiy kombinat). Their respective elemental compositions are:

	C	Si	Mn	Ni	Cr
17GS	0.19	0.43	1.35	0.36	—
14GN	0.16	0.31	1.00	0.50	0.16
	S	P	O,	H,	N,
17GS	0.014	0.01	0.003	0.0004	0.003
14GN	0.027	0.02	0.023	0.0007	0.005

Cord 1/2

UDC: 669.14.018.85

12/1966

ACC NR: AF6014606

Fragments cut from the pipes were heat treated and machined into specimens for mechanical testing. The type of heat treatment is explained. Mechanical properties of the two materials were tested for their change in respect to the temperature of tempering, and the results of these tests are presented graphically. In the tension tests, the method of N. A. Kahn and E. A. Imombo (The Welding Journal, 1950, v. 29, No. 3, p. 85--96) was applied. A study of Impact strength revealed an almost straight-line relation between this property and the cross section width. The type of failure and the crack formation were investigated and are shown for various temperatures and areas, while the microstructure of the two steels at various types of tempering is presented photographically. The materials were further tested for their embrittlement at various heat treatments, with the results of the embrittlement experiments shown in a table. It is noted that steel 17GS is most resistant to embrittlement after being hardened and tempered at 600C, and steel 14GN at 500C. Temperatures of -60 and -40C are, respectively, the lowest to which the two investigated steels may be subjected. Orig. art. has: 9 figures, 1 microphotograph, and 1 table.

SUB CODE: 1311 / SUBM DATE: none / ORIG REF: 001 / OTH REF: 004

Card 2/2 mjs

MALYSHEV, P.A., kandidat tekhnicheskikh nauk; SADOVNICHIIY, V.V., kandidat
tekhnicheskikh nauk; ANUCHKIN, M.V., inzhener

Hydraulic preparation of peat fertilizers. Inv. AM BSSR no.1:89-98
Ja-F '55. (Peat) (MIRA 8:7)

15-57-7-1030

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 7,
p 253 (USSR)

AUTHORS: Bodilovskiy, V. A., Malyshev, F. A., Anuchkin, M. V.

TITLE: Preparation of Peat for Soil Conditioning with the
Help of the UMPF-4 Peat Loader (Zagotovka torfa na
udobreniye s primeneniem mashiny UMPF-4 i uchet torfa)

PERIODICAL: Tr. In-ta torfa AN BSSR, 1956, Vol 5, pp 32-46

ABSTRACT: The present article describes tests of the UMPF-4
peat loader conducted in 1951 in one of the peat bogs
of the Minsk district. The tests were conducted by
the Peat Institute of the Academy of Sciences of the
Belorussian SSR in collaboration with the "DUKORA"
Peat Experiment Station. The machine was tested for
loading peat to be used as fertilizer, that is, peat
with a moisture content of 60 percent. The peat
deposit on which the tests were made is described.

Card 1/4

15-57-7-10367

Preparation of Peat for Soil Conditioning (Cont.)

capacity of the UMPF-4 peat loader per 8 hours of peat loading is 4 to 5 hectares; the average amount of peat loaded (with 60 percent moisture content) is 50 tons per hectare. The cost per ton of loading and hauling the peat is 2 to 2.5 rubles for a hauling over a distance of 150 m to 200 m. This loader will require the following modifications for wider use: 1) the undercarriage will need to be strengthened; 2) the load capacity will need to be reduced from 12 cu m to 9 or 10 cu m; 3) the manner of unloading the peat onto trucks or other conveyances will need to be modified, or the height of unloading into piles will need to be adjusted to from 2 m to 2.5 m. Properties and production of the various machines used in conjunction with the UMPF-4 loader are given. The amount of peat loaded is calculated after it has been brought into storage. Where peat is produced with the help of farming machinery MTS, the author recommends that a running account and a final inventory be taken. The former is necessary for keeping track of time spent by workers occupied in this operation and for planning the time of year when Card 3/4

ANIKHIN, N. N., Eng.; GVRITOV, Z. Ye., Eng.; RUDNITSKIY, L. Ye.

Excavating Machinery

- Excavating grader with a capacity between 1000-2,000 cu. meters per hour. Nekh. stroi. 10, No. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

ANUCHKIN, N.N., inzhener; BOGOMOLOV, S.P., inzhener; STEPANOV, V.G.,
laureat Stalinskoy premii.

The SM-301 press for moist pressing bricks. Mekh.stroi. 11 no.12:32-
34 D '54.
(Brickmaking machinery)

ANUCHKIN, N.N., inzhener; GARBUZOV, Z.Ye., inzhener; SMIRNOV, A.P.,
inzhener.

Prospective developments in high productivity earthmoving machines.
Stroi. i dor.mashinostr. 1 no.2:15-17 F '56. (MLRA 10:1)
(Earthmoving machinery)

ANUCHKIN, N.N.; GARBUZOV, Z.Ye.; MIKHAYLOV, P.M.

The E-155 universal building excavator. Biul.tekh.-ekon.inform.
no.11:48-50 '59. (MIRA 13:4)
(Excavating machinery)

ANUCHKIN, N.N., inzh.; GARBUZOV, Z.Ye., inzh.; ZAYTSEV, L.V., inzh.;
KULIKOV, A.P., inzh.; MIKHAYLOV, P.M., inzh.

E-155 and E-156 building excavators with caterpillar drive or with
pneumatic tires. Stroi. i dor. mashinostr. 5 no.5:5-9 My '60.

(MIRA 14:4)

(Excavating machinery)

ANUCHKIN, N.G., inzh.; GARBUZOV, Z.Ye., inzh.; MIKHAYLOV, P.M., inzh.

The K-2,5-1E motor crane with a 2.5 ton capacity. Stroi.i dor.mash.
6 no.4:7-10 Ap '61. (MIRA 14:3)
(Cranes, derricks, etc.)

KAZARINOV, V.M., kand. tekhn. nauk; IZHEVSKIY, K.K., inzh.; FOKHT, L.G., inzh.; KOTSANDI, I.A., inzh.; ANUCHKINA, N.F., inzh.; POLYAKOV, V.I., kand. tekhn. nauk; GLAZUNOV, V.N., kand. tekhn. nauk; PAVLOVA, Ye.N., inzh.; POLOSIN, M.D., inzh.; KRONOSHCH, I.L., inzh., nauchn. red.; SHERSTNEVA, N.V., tekhn. red.

[Manual on the mechanization of small-scale operations carried out on building sites remote from major construction points] Spravochnoe posobie po mekhanizatsii melkikh ras-sredotochennykh stroitel'nykh rabot. Moskva, Stroizdat, 1964. 415 p. (MIRA 17:3)

1. Moscow. Nauchno-issledovatel'skiy institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stva.

ACCESSION NR: AP4012071

S/0020/64/154/002/0247/0250

AUTHOR: Anuchina, N. N.

TITLE: Difference schemes of solving the Cauchy problem for symmetrical hyperbolic systems

SOURCE: AN SSSR. Doklady*, v. 154, no. 2, 1964, 247-250

TOPIC TAGS: Cauchy problem, hyperbolic system, mathematical analysis, symmetrical equation system, real function, difference approximation

ABSTRACT: Difference schemes were given for solving the Cauchy problem of a linear, symmetrical, hyperbolic system with "s" independent variables and "m" unknown functions. The solutions are convergent in the norm L_2 . The system can be represented as:

$$\frac{\partial u}{\partial t} + \sum_{k=1}^s A^k \frac{\partial u}{\partial x_k} + Bu = f, \quad u(x, 0)|_{t=0} = u_0(x),$$

where $x = (x_1, \dots, x_s)$ is the point of the real space R_s ; $-c_1 < x_k < c_2$, $0 < t < T$; $u(x, t)$, $f(x, t)$ is the vector function with values in the m -dimensional real space; $A^k(x, t)$,

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$B(x, t)$ are real and symmetrical m by m matrices. It is assumed that $u_0(x) \in L_2(-\infty, +\infty)$. The scalar product and norm are determined by

$$(u, v) = \int_{-\infty}^{\infty} u^{(i)} v^{(i)} dx = \int u' v dx, \|u\| = (u, u)^{1/2}$$

For a linear operator C :

$$\|C\| = \sup_{1 \leq i \leq m} \|Cu_i\|.$$

In view of the system's symmetry and hyperbolicity, the Cauchy problem is correct in $L_2(-\infty, +\infty)$. Because A_k are real, symmetrical matrices, they are orthogonally similar to the diagonal matrices with real functions on the diagonals. Some difference approximations of the problem are given. "Study was performed under guidance of N. N. Yanenko, whom the author thanks." Orig. art. has: 14 equations.

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AUTHOR: Anuchina, N. N.

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TOPIC TAGS: finite difference, Cauchy problem, hyperbolic equation

ABSTRACT: The convergence in the L_2 -norm of some finite difference solutions to the linear, symmetric Cauchy problem for hyperbolic systems is investigated. The equation under study has s -independent variables and m -unknown functions; it is given by

$$\frac{\partial u}{\partial t} + \sum_{k=1}^s A^k \frac{\partial u}{\partial x_k} + Bu = f, \quad u(x, t)|_{t=0} = u_0(x). \quad (1)$$

The algorithm of the finite difference schemes is constructed according to the following rules: 1) the A^k matrix is represented by the sum of two symmetric matrices, one of which is nonnegative and the other nonpositive; 2) the s -dimensional hyperbolic system is substituted by s -dimensional systems using a "splitting" method; 3) the difference operator is approximately factorized. Equation (1) is then written in the

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[Ultrasonic control of welded heads of stator winding rods of
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1. Zamestitel' glavnogo inzhenera po tekhnike bezopasnosti Chelyabinskogo metallurgicheskogo zavoda.
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Subject : USSR/Mining AID P - 3290
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Author : Anufriyenko, V. A.
Title : Constantly improve methods for well exploitation
Periodical : Neft. khoz., v. 33, #9, 84-86, S 1955
Abstract : The author is a foreman in oil recovery in the Groznyy district. He reports better production results due to more progressive methods of work, better qualified workers, the use of more modern machinery, improvements in repair work, the application of secondary recovery methods, etc.
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